Maths

Number and Place Value
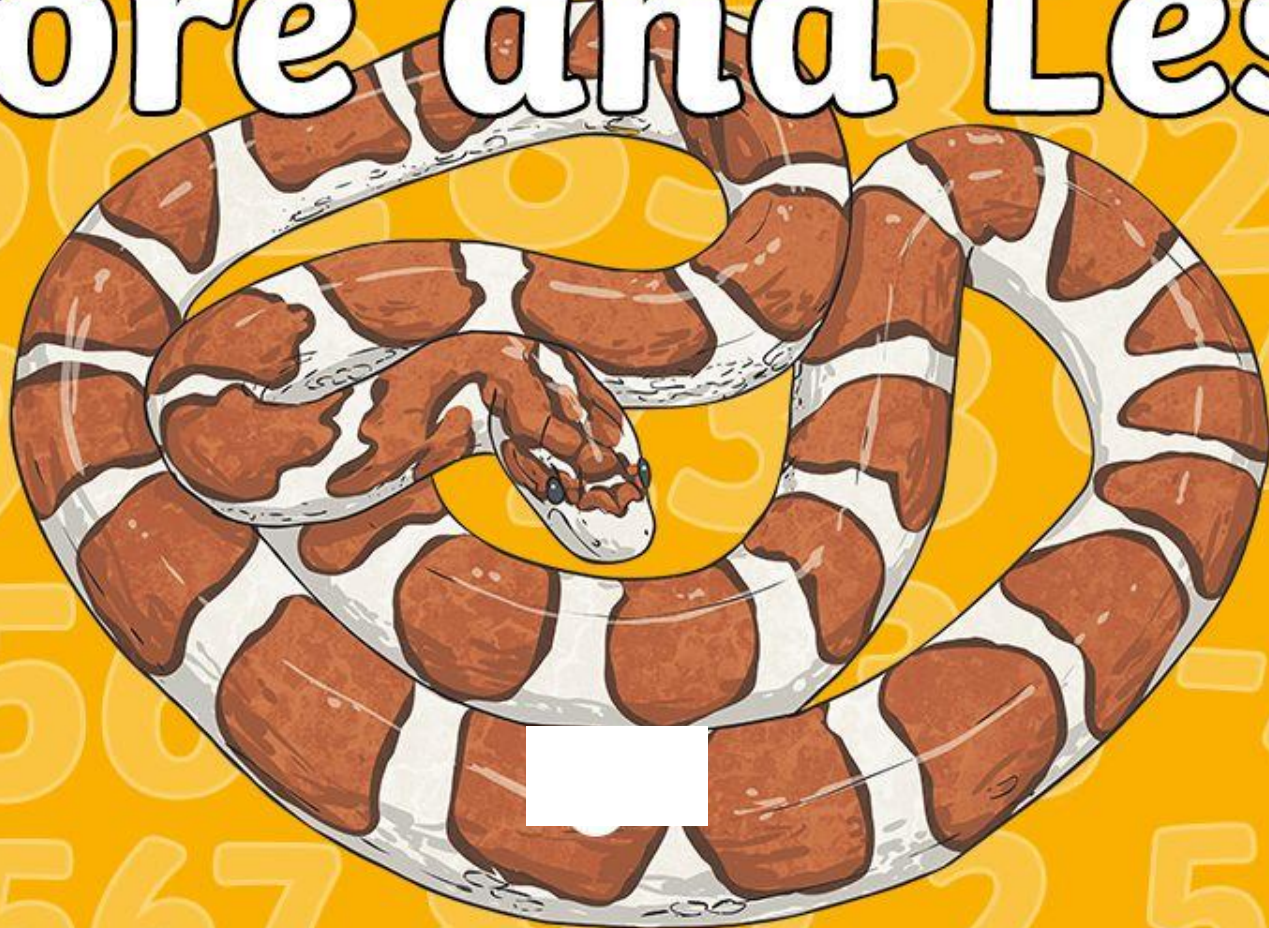
Need a coherently planned sequence of lessons to complement this resource?

10 and 100 More and Less

Aim

- To find 10 and 100 more or less than a given number.

Success Criteria

- I can find 10 more than a given number.
- I can find 10 less than a given number.
- I can find 100 more than a given number.
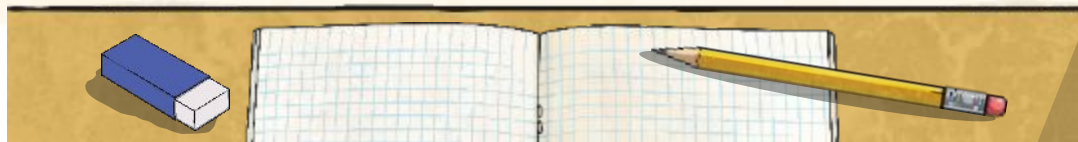- I can find 100 less than a given number.

Remember It

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Count in tens forwards. Start at zero.
How far can you count in one minute?

Count in tens backwards. Start at 200.

Count in hundreds forwards. Start at zero.
How far can you count in one minute?

Count in hundreds backwards. Start at 1000.

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Finding Ten More or Less

First, we will learn to find 10 more or less than a number. For example, 10 more than 47.

What does **less than** mean?

It means a smaller amount, so 10 less than 12 is 2.

If you know that **less than** means a smaller amount, what do you think **more than** means?

It means a larger amount, so 10 more than 12 is 22.

So how can we actually find 10 more or less than a given number?

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Finding Ten More or

Let's count up in 10s.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

10 20, 30, 40, 50, 60, 70, 80, 90, 100

What do you notice about the digits? Which change, and which stay the same?

The ones digit stays the same. The tens digit changes. It goes up until it gets to 10 tens, which is the same as 100. Then, we will have 1 hundred and 0 extra tens.

What is 10 more than 100?

110

Finding Ten More or Less

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Let's count up in tens, starting from a number which is not a multiple of 10.
Let's start on 18.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

18 28, 38, 48, 58, 68, 78, 88, 98

What do you notice about the digits? Which change, and which stay the same?

The ones digit stays the same. The tens digit changes. It goes up until it gets to 10 tens, which is the same as 100. Then, we will have 1 hundred and 0 extra tens.
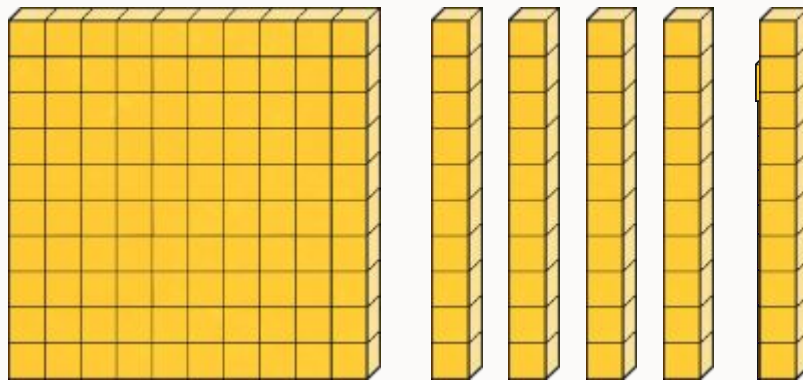
What is 10 more than 98?

108

Finding Ten More or Less

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Let's find 10 more using base ten blocks.

What is 10 more than 139?

What happens to each place value position in the number?

The ones and the hundreds stay the same. The tens increase by 1 ten.

What do you think 10 more than 149 will be?

159

Finding Ten More or Less

Let's find 10 more using a place value flipchart.

Hundreds   Tens   Ones

3   6   2

What is 10 more than 362?

What do you notice about each digit?

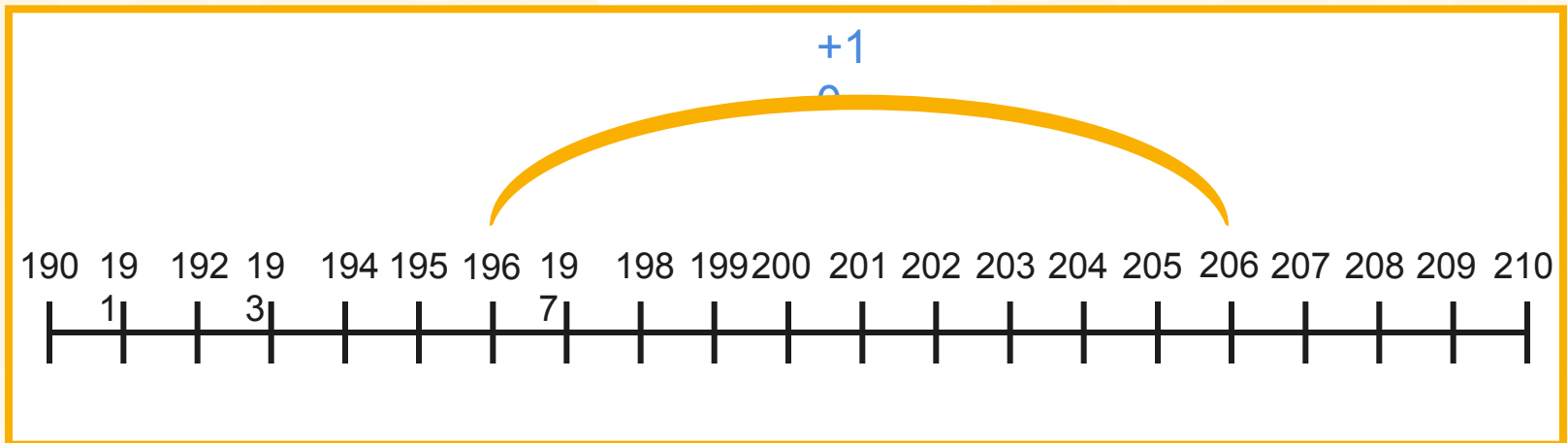The ones digit and the hundreds digit stay the same. The tens digit increases by 1.

What do you think 10 more than 372 will be?

382

Finding Ten More or

What do you think 10 more than 196 will be? Prove it.

+10

190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210

206

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Finding Ten More or Less

Let's count down in tens, starting at 92.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

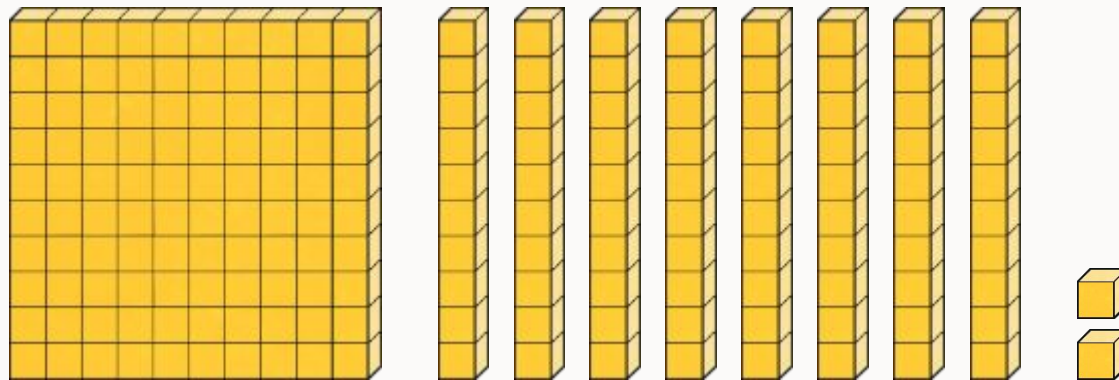92, 82, 72 62, 52, 42, 32 22, 12 2
, , ,

What do you notice about the digits?

The ones digit stays the same and the tens digit is going down.

Finding Ten More or Less

Let's find 10 less using base ten blocks.

What is 10 less than 182?

What do you notice about the numbers?

The ones digit and the hundreds digits stay the same and the tens digit has decreased by one ten.
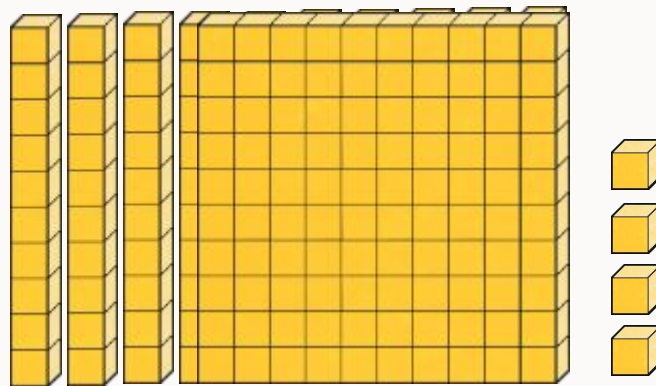
What do you think 10 less than 172 will be?

162

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Finding Ten More or Less

Let's find a different number using base ten blocks.

Ten less than 104 is 94.

What is ten less than 104?

First, we exchange the hundred for 10 tens.

Then, to find 10 less, we take away one ten.

Can you think of any other numbers where 10 less would change the digits in the tens and hundreds, e.g. 10 less than 201?

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Finding Ten More or

Let's find 10 less using a place value flipchart.

What is 10 less than 154?

What do you notice about the number?

The ones digit and the hundreds digit stay the same and the tens digit has decreased by 1 ten.

What do you think 10 less than 144 will be?

134

Snakes

10 less
235   245   **255** (10 more)

10 less
97   107   **117** (10 more)

10 less
289   **299**   **309** (10 more)

10 less
601   **611**   621 (10 more)

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Finding 100 More or Less

First, we will learn to find 100 more or less than a number. For example, 100 more than 347.

What does **less than** mean?

It means a smaller amount, so 100 less than 347 is 247.

If you know that **less than** means a smaller amount, what do you think **more than** means?
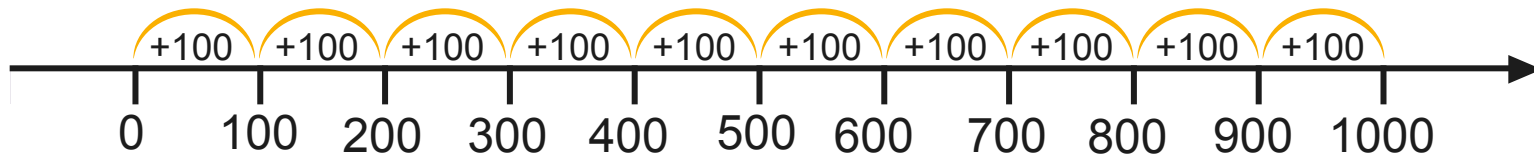
It means a larger amount, so 100 more than 347 is 447.

So how can we actually find 100 more or less than a given number?

Finding 100 More or Less

Let's count up in 100s.

+100 +100 +100 +100 +100 +100 +100 +100 +100 +100

0   100   200   300   400   500   600   700   800   900   1000

What do you notice about the digits when we count in hundreds?

The ones and tens digits stays the same.
The hundreds digit changes. It goes up until it gets to 10 hundreds, which is the same as 1000. Then, we will have 1 thousand and 0 extra hundreds.
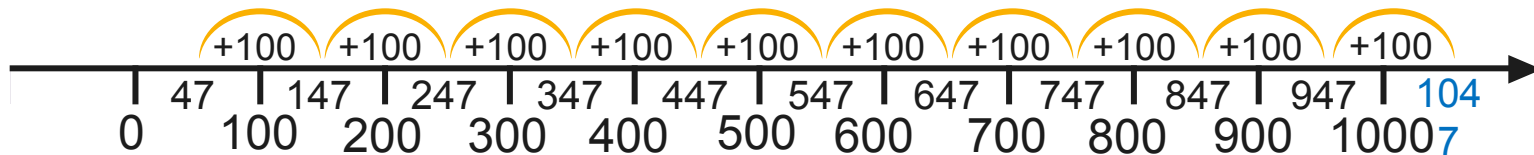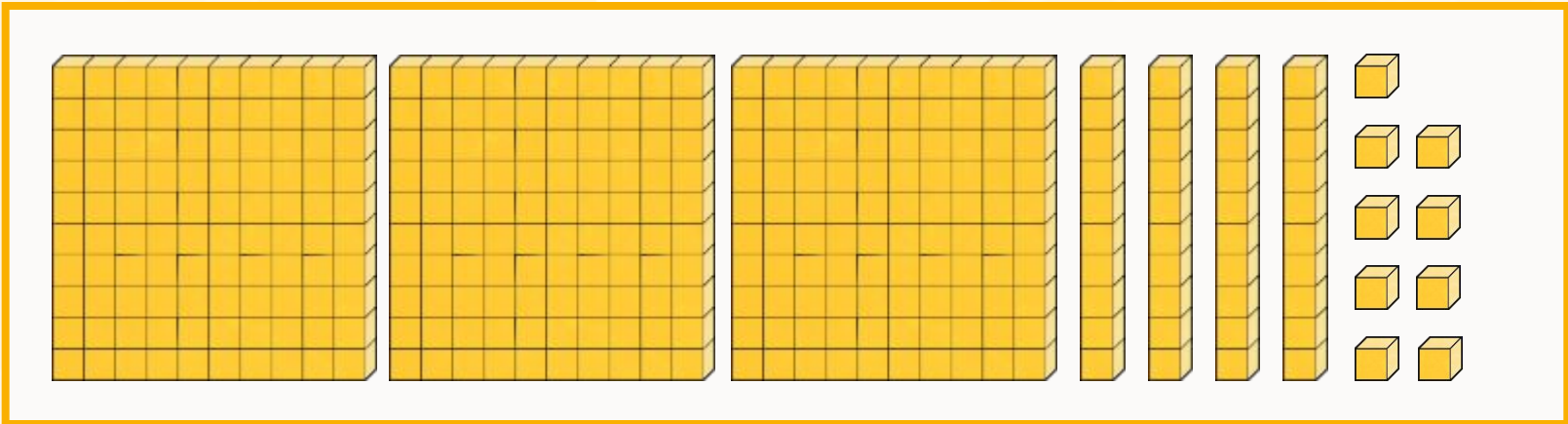
What is 100 more than 1000?

1100

Finding 100 More or Less

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Let's count up in 100s.

+100 +100 +100 +100 +100 +100 +100 +100 +100 +100

| 47 | 147 | 247 | 347 | 447 | 547 | 647 | 747 | 847 | 947 | 1047 |

0   100   200   300   400   500   600   700   800   900   1000

What do you notice about the digits?

The ones and tens digits stays the same.
The hundreds digit changes. It goes up until it gets to 10 hundreds, which is the same as 1000. Then, we will have 1 thousand and 0 extra hundreds.

What is 100 more than 947?

1047

Finding 100 More or Less

Let's find 100 more using base ten blocks.

What is 100 more than 149?

What do you notice about the numbers?

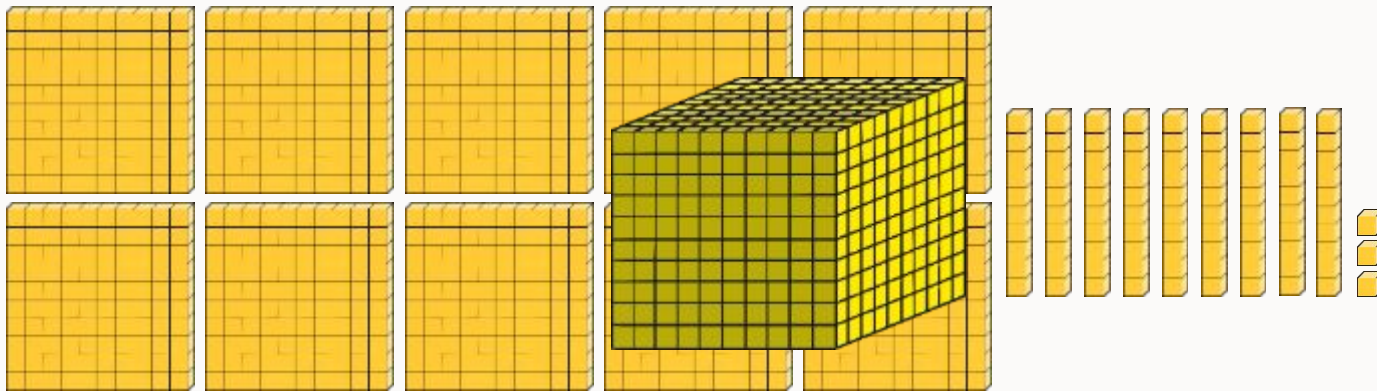The ones and tens stay the same. The hundreds go up (increase) by 1 hundred.

What do you think 100 more than 249 will be?

349

Finding 100 More or Less

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Let's find 100 more than a different number using base ten flats.

What is 100 more than 993?

There are now 10 hundred flats. 10 hundreds make 1000.

100 more than 993 is 1093.

Can you think of any other numbers where adding 100 would change the digits in both the hundreds and thousands, e.g. 100 more than 994?

Finding 100 More or

Let's find 100 more using a place value flipchart.

What is 100 more than 234?

What do you notice about the digits?

The ones and tens digits have stayed the same and the hundreds digit has gone up by 1 hundred.
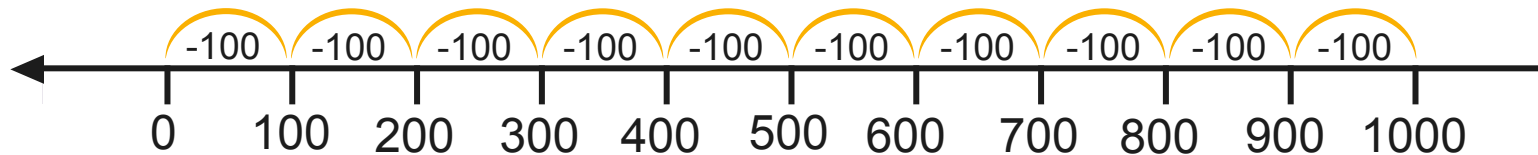
What do you think 100 more than 334 will be?

434

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Finding 100 More or Less

Let's have a go at counting down in 100s.

-100 -100 -100 -100 -100 -100 -100 -100 -100 -100

0   100   200   300   400   500   600   700   800   900   1000

What happens to the digits when we count down in hundreds?
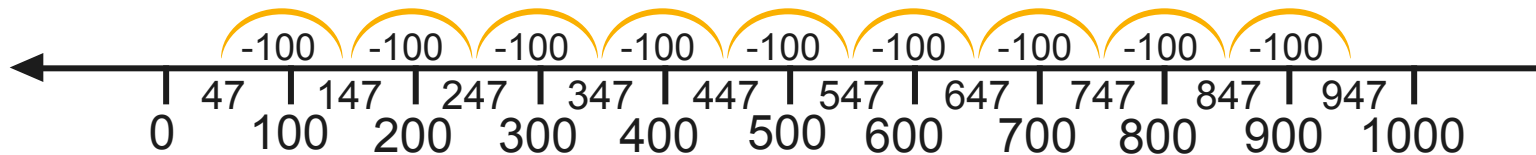
The ones and the tens digits stay the same.

The hundreds digit decreases (goes down) each time until there are no hundreds left.

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Finding 100 More or Less

Let's count down in 100s again, starting from a different number.

-100 -100 -100 -100 -100 -100 -100 -100 -100

47 147 247 347 447 547 647 747 847 947

0 100 200 300 400 500 600 700 800 900 1000

What do you notice about the digits this time when we count back in hundreds?

The ones and tens digit stay the same.

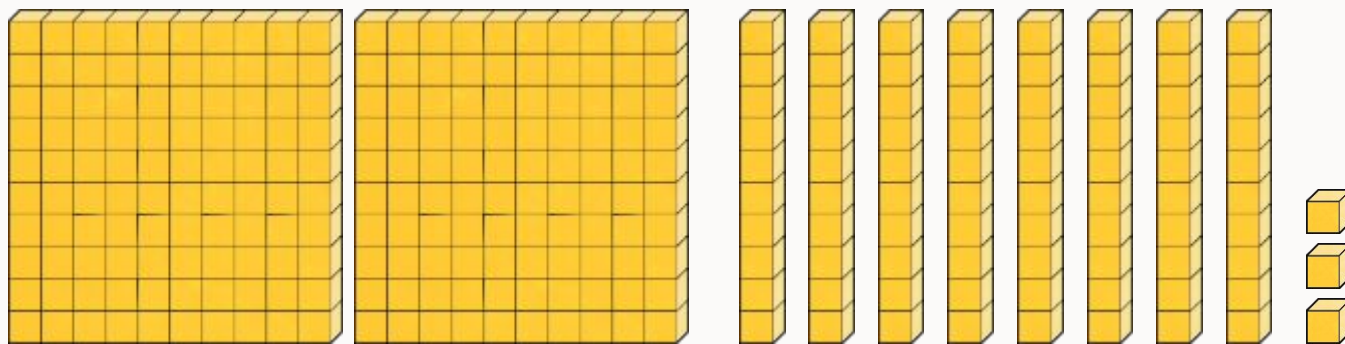The hundreds digit decreases each time until there are no hundreds left.

100 less than 147 is 47.

Finding 100 More or Less

Let's find 100 less using base ten blocks.

What is 100 less than 283?

What changes? What stays the same?

The ones digit and the tens digit stay the same and the hundreds digit has gone down by one hundred.

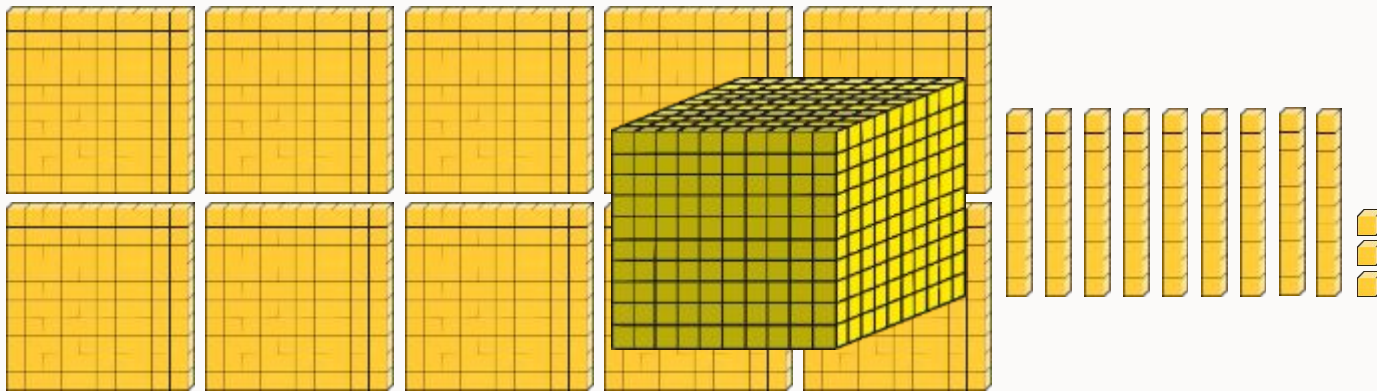What do you think 100 less than 183 will be?

83

Finding 100 More or Less

Let's find 100 less than a different number using base ten blocks.

What is 100 less than 1093? **100 less than 1093 is 993.**

First, we exchange the thousand for 10 hundreds.

Then, to find 100 less, we take away one hundred.

Can you think of any other numbers where 100 less would change the digits in the thousands and hundreds, e.g. 100 less than 2021?

Finding 100 More or Less

Let's find 100 less using a place value flipchart.

What is 100 less than 742?

What do you notice about the numbers?

The ones and the tens digits stay the same and the hundreds digit has gone down by 1 hundred.

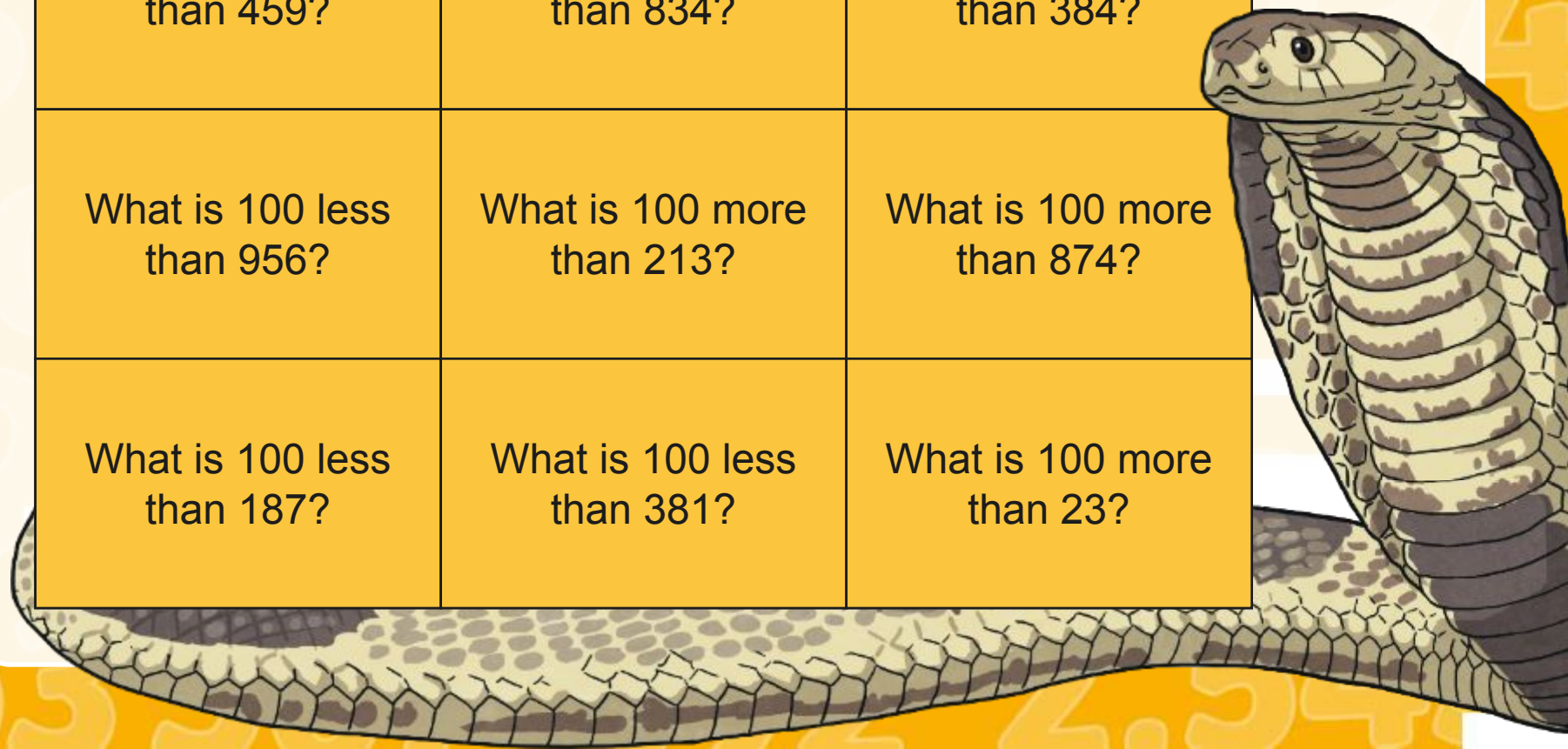What do you think 100 less than 642 will be?

542

Spot a

How many snakes can you see?

What is 100 more than 459?	What is 100 more than 834?	What is 100 less than 384?
What is 100 less than 956?	What is 100 more than 213?	What is 100 more than 874?
What is 100 less than 187?	What is 100 less than 381?	What is 100 more than 23?

Slithering Snakes

Finding Mo...

To find ...

Fill in the missing numbers:

1. 10 less than
2. 10 less than
3. 10 less than
4. 10 less than
5. 10 less than 110

Finding Mor...

What is 10 mo...

What is 10 les...

	10 less than 205 is...	Go back 2 spaces.	100 less than 101 is...		100 more than 999 is...	Move back to '100 more than 492 is...'	Move back 4 spaces.
	100 more than 702 is...		100 more than 935 is...		100 more than 953 is...		100 less than 948 is...
Start	100 less that 582 is...		100 more than 683 is...		Help a friend.		100 more than 942 is...
10 more than 89 is...	10 less than 752 is...		10 more than 356 is...		10 less than 458 is...		100 less than 833 is...
100 less than 935 is...	Miss a go.		Go forward 3 spaces.		10 more than 299 is...		**Finish**
100 more than 984 is...	100 more than 837 is...		100 more than 593 is...		100 less than 334 is...		
Go back to the start.	10 less than 175 is...	100 more than 492 is...		100 less than 948 is...	100 more than 395 is...	Move back to '100 less than 501 is...'	

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Diving into Mastery

Dive in by completing your own activity!

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Aim

- To find 10 and 100 more or less than a given number.

Success Criteria

- I can find 10 more than a given number.
- I can find 10 less than a given number.
- I can find 100 more than a given number.
- I can find 100 less than a given number.